Marktech Optoelectronics

High Speed InGaAs PIN Photodiode

Product No: **MTPD1346D-300**

Sensitivity Wavelength Range: 600nm ~ 1750nm

The 1346 series from Marktech, a high sensitivity and high reliability product series, is ideally suited for Optical Communication devices. Custom packaging options for this die are also available.



FEATURES

> High Speed Response
> TO-39 Metal Can Package
> Active Area of 3.0mm / High Sensitivity
> Spectral Range 600nm -- 1750nm

APPLICATIONS

> High Speed Optical Communications
> Optical LAN
> Optical Switches
> Ethernet Fiber Channel

Absolute Maximum Ratings (Ta=25°C)

ITEMS	SYMBOL	RATINGS	UNIT
Active Area	Φ	3.0	mm
Operating Temperature Range	Topr	-40 to +85	°C
Storage Temperature Range	Tstg	-40 to +125	°C

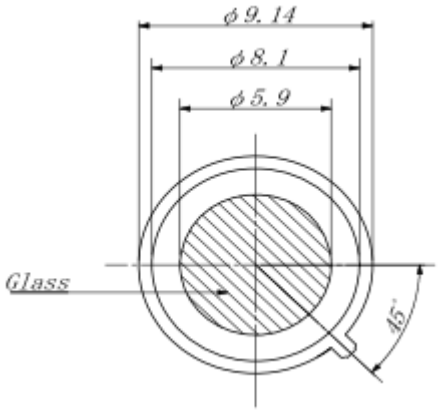
Electrical & Optical Characteristics (Ta = 25°C)

ITEMS	SYMBOL	CONDITIONS	MIN	TYP	MAX	UNIT
Breakdown Voltage	VR	IR=10uA	--	--	1.0	V
Sensitivity Range	λ	VR=0V	600	--	1750	nm
Dark Current	ID	VR=1V	--	265	--	uA
Capacitance	C	VR=1V; *2	--	--	2090	pF
Responsivity	R	λ=1.6um	--	0.50	--	A/W
Shunt Resistance	RS	VR=10mV	--	0.360	--	kOhm
Quantum Efficiency	QE	λ=1.6um	--	0.40	--	%
Light Current	IL	λ=1.6um; *1	--	35.4	--	μA
Rise and Fall Time	Tr,Tf		--	102	--	ns
Bandwidth	BW		--	4.3	--	MHz

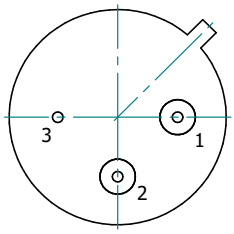
*1: Ee=1mW/cm^2 *2: f=100kHz/1kHz

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Top view

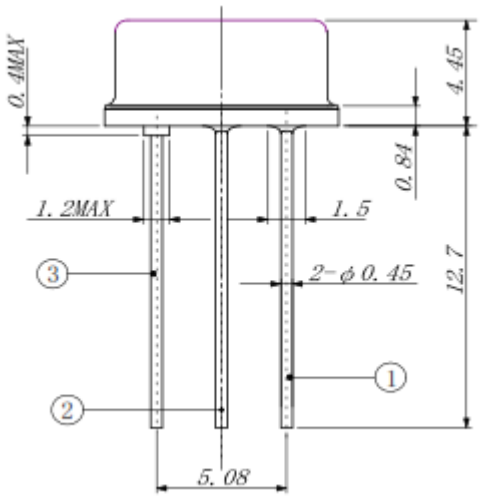


Bottom view



①Cathode ②Anode ③Case

Pin 1 is closest to the Tab



①Cathode ②Anode ③Case

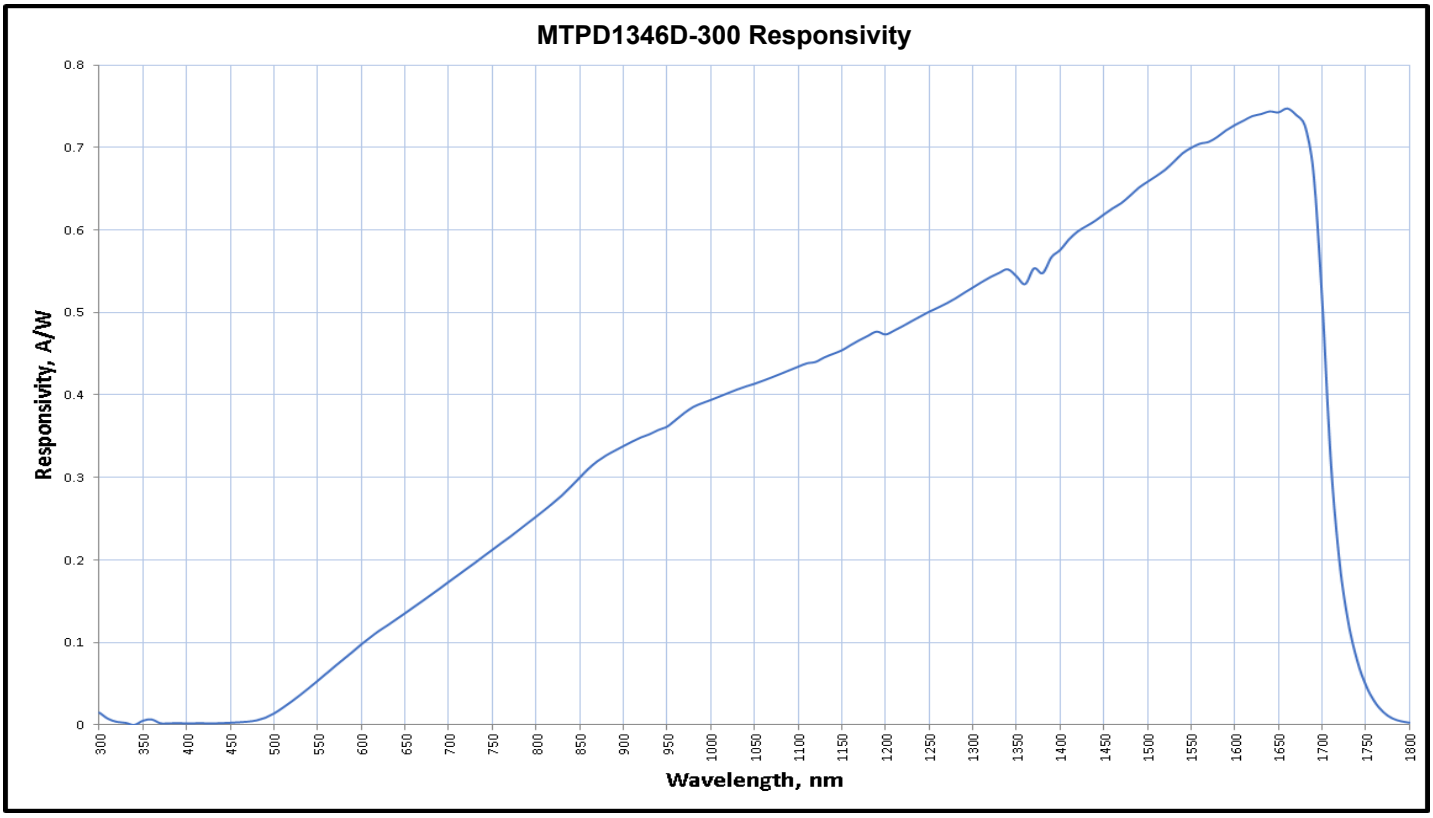
Pin 1 is closest to the Tab

Unit: mm, Tolerance: ±0.2

The information contained herein is subject to change without notice.

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Spectral Response Graph



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